Exhibit 4B

```
RCS file: /s6/cvsroot/euterpe/BOM, v
Working file: BOM
head: 5.105
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 1940; selected revisions: 4
description:
top level BOM
______
revision 3.942
date: 1995/08/02 06:40:58; author: lisar; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
      euterpe wrap.V
Oops typo caused dout0[7] to be short to dout1[7]
revision 3.941
date: 1995/07/31 18:50:01; author: lisar; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
      euterpe wrap.V
Oops drive clk54m_ABD0P700V not clk54m_ABD0P700V when the LVS netlist
revision 3.940
date: 1995/07/30 02:47:38; author: tbr; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
Makefile.vo: change twinvia step
Makefile.tst: remove kludge from final-report
uu/uu_control.pim: Latest placement. Note this was already in top level.
i h euterpe wrap.tb: Change to single configuration file
___________
revision 3.939
date: 1995/07/29 23:46:20; author: lisar; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
     euterpe_wrap.V
When wrapping the LVS netlist don't expect the vdde pin to be at the interface
of euterpe - it's a global
______
RCS file: /s6/cvsroot/euterpe/verify/status,v
Working file: verify/status
head: 3.64
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 64;
                     selected revisions: 8
description:
revision 3.48
date: 1995/08/02 18:49:00; author: dit00; state: Exp; lines: +21 -8
                                  Exhibit 4B
```

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```
Update
revision 3.47
date: 1995/08/01 22:56:18; author: dit00; state: Exp; lines: +1 -0
Update
revision 3.46
date: 1995/08/01 17:21:20; author: lisar; state: Exp; lines: +16 -0
periodic update
revision 3.45
date: 1995/07/31 22:43:12; author: dit00; state: Exp;
                                                  lines: +10 -0
Update
______
revision 3.44
date: 1995/07/31 16:57:35; author: dit00; state: Exp;
                                                  lines: +2 -0
Periodic update
revision 3.43
date: 1995/07/31 16:16:56; author: lisar; state: Exp;
                                                  lines: +338 -0
periodic update
_____
revision 3.42
date: 1995/07/30 20:42:10; author: dit00; state: Exp;
                                                  lines: +18 - 0
Perodic update
revision 3.41
date: 1995/07/29 20:05:38; author: dit00; state: Exp; lines: +54 -0
Periodic update
RCS file: /s6/cvsroot/euterpe/verify/random/status,v
Working file: verify/random/status
head: 2.26
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 26;
                  selected revisions: 2
description:
revision 2.21
date: 1995/08/01 22:57:21; author: dit00; state: Exp; lines: +6 -0
Update
revision 2.20
date: 1995/07/29 20:29:47; author: dit00; state: Exp;
                                                 lines: +2 -0
Periodic update
RCS file: /s6/cvsroot/euterpe/verify/random/template,v
Working file: verify/random/template
head: 2.33
branch:
locks: strict
access list:
keyword substitution: kv
```

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```
total revisions: 33; selected revisions: 3
description:
______
revision 2.26
date: 1995/08/02 18:50:53; author: dit00; state: Exp; lines: +14 -14
Update
revision 2.25
date: 1995/08/01 22:57:23; author: dit00; state: Exp; lines: +147 -141
revision 2.24
date: 1995/07/29 20:29:45; author: dit00; state: Exp; lines: +16 -13
Periodic update
RCS file: /s6/cvsroot/euterpe/verify/toplevel/eu_debug_lvs.srl,v
Working file: verify/toplevel/eu_debug_lvs.srl
head: 41.1
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 1; selected revisions: 1
description:
revision 41.1
date: 1995/07/31 18:47:44; author: lisar; state: Exp;
For the lvs netlist
RCS file: /s6/cvsroot/euterpe/verify/toplevel/hermtotest.S,v
Working file: verify/toplevel/hermtotest.S
head: 39.5
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 5; selected revisions: 2
description:
revision 39.5
date: 1995/08/01 18:37:40; author: jeffm; state: Exp; lines: +2 -2
Test did an extra machine check.
______
revision 39.4
date: 1995/07/31 17:32:24; author: jeffm; state: Exp; lines: +2 -2
Fixed pass3 to avoid nb antiuse preventing 2nd hermes op from going out - thus
causing a watchdog timeout with only one outstanding hermes request, instead
of two.
RCS file: /s6/cvsroot/euterpe/verify/toplevel/likedriverlog_lvs.srl,v
Working file: verify/toplevel/likedriverlog_lvs.srl
head: 41.1
branch:
locks: strict
```

Exhibit 4B

```
access list:
keyword substitution: kv
total revisions: 1; selected revisions: 1
description:
______
revision 41.1
date: 1995/07/31 18:47:42; author: lisar; state: Exp;
For the lvs netlist
RCS file: /s6/cvsroot/euterpe/verify/toplevel/nbleak debug.sig,v
Working file: verify/toplevel/nbleak debug.sig
head: 41.2
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 2; selected revisions: 1
description:
_____
revision 41.1
date: 1995/08/03 23:36:27; author: jeffm; state: Exp;
Debug signals to be used to look for cause of nb shrinkage.
RCS file: /s6/cvsroot/euterpe/verify/toplevel/rawdata debug.srl,v
Working file: verify/toplevel/rawdata debug.srl
head: 41.5
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 5; selected revisions: 4
description:
revision 41.5
date: 1995/08/02 18:47:23; author: dit00; state: Exp; lines: +6 -6
Fixed some trace names
_____
revision 41.4
date: 1995/08/01 23:18:48; author: jeffm; state: Exp; lines: +9 -0
Added signals to trace hermes clocks.
revision 41.3
date: 1995/07/31 22:34:36; author: jeffm; state: Exp; lines: +2 -2
Fixed a coupla signal names.
revision 41.2
date: 1995/07/31 22:04:36; author: jeffm; state: Exp; lines: +60 -18
Added more signals.
RCS file: /s6/cvsroot/euterpe/verify/toplevel/template,v
Working file: verify/toplevel/template
head: 1.148
```

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branch:

locks: strict

```
access list:
keyword substitution: kv
total revisions: 148; selected revisions: 8
description:
revision 1.136
date: 1995/08/02 18:48:26; author: dit00; state: Exp; lines: +2 -2
Update
_______
revision 1.135
date: 1995/07/31 23:02:30; author: lisar; state: Exp; lines: +157 -157
Add l_
           ______
revision 1.134
date: 1995/07/31 22:42:34; author: dit00; state: Exp; lines: +2 -2
More time for dram load config1
_______
revision 1.133
date: 1995/07/31 22:36:16; author: lisar; state: Exp; lines: +43 -43
Add lvs list
revision 1.132
date: 1995/07/31 17:06:06; author: dit00; state: Exp; lines: +4 -4
Update
revision 1.131
date: 1995/07/30 20:42:37; author: dit00; state: Exp; lines: +3 -3
Perodic update
revision 1.130
date: 1995/07/30 00:15:58; author: lisar; state: Exp; lines: +33 -33
Add l simulator
revision 1.129
date: 1995/07/29 20:28:57; author: dit00; state: Exp; lines: +5 -7
Periodic update
RCS file: /s6/cvsroot/euterpe/verilog/BOM, v
Working file: verilog/BOM
head: 6.9
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 1390; selected revisions: 4
description:
top level verilog BOM
_____
revision 4.16
date: 1995/08/02 06:40:40; author: lisar; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
     euterpe wrap.V
Oops typo caused dout0[7] to be short to dout1[7]
_____
revision 4.15
```

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date: 1995/07/31 18:49:44; author: lisar; state: Exp; lines: +2 -2 Release Target: euterpe/verilog/bsrc euterpe wrap.V Oops drive clk54m ABD0P700V not clk54m ABD0P700V when the LVS netlist revision 4.14 date: 1995/07/30 02:47:21; author: tbr; state: Exp; lines: +2 -2 Release Target: euterpe/verilog/bsrc Makefile.vo: change twinvia step
Makefile.tst: remove kludge from final-report uu/uu_control.pim: Latest placement. Note this was already in top level. i h euterpe wrap.tb: Change to single configuration file revision 4.13 date: 1995/07/29 23:45:56; author: lisar; state: Exp; lines: +2 -2 Release Target: euterpe/verilog/bsrc euterpe_wrap.V When wrapping the LVS netlist don't expect the vdde pin to be at the interface of euterpe - it's a global RCS file: /s6/cvsroot/euterpe/verilog/bsrc/BOM, v Working file: verilog/bsrc/BOM head: 346.6 branch: locks: strict access list: keyword substitution: kv total revisions: 1737; selected revisions: 5 description: ______ revision 339.2 date: 1995/08/02 06:40:21; author: lisar; state: Exp; lines: +2 -2 Release Target: euterpe/verilog/bsrc euterpe wrap.V Oops typo caused dout0[7] to be short to dout1[7] revision 339.1 date: 1995/07/31 18:49:25; author: lisar; state: Exp; lines: +2 -2 Release Target: euterpe/verilog/bsrc euterpe wrap.V Oops drive clk54m ABD0P700V not clk54m ABD0P700V when the LVS netlist revision 339.0 date: 1995/07/30 02:46:54; author: tbr; state: Exp; lines: +1 -1 Release Target: euterpe/verilog/bsrc Makefile.vo: change twinvia step Makefile.tst: remove kludge from final-report uu/uu_control.pim: Latest placement. Note this was already in top level.

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```
i h euterpe wrap.tb: Change to single configuration file
______
revision 338.2
date: 1995/07/30 02:46:41; author: tbr; state: Exp; lines: +5 -5
releasebom: File needs to be up-to-date to use commit -r
_______
revision 338.1
date: 1995/07/29 23:45:32; author: lisar; state: Exp; lines: +2 -2
Release Target: euterpe/verilog/bsrc
     euterpe wrap.V
When wrapping the LVS netlist don't expect the vdde pin to be at the interface
of euterpe - it's a global
RCS file: /s6/cvsroot/euterpe/verilog/bsrc/Makefile.tst,v
Working file: verilog/bsrc/Makefile.tst
head: 40.104
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 104; selected revisions: 2
description:
revision 40.101
date: 1995/08/02 06:57:10; author: tbr; state: Exp; lines: +8 -8
make .csyn instead of .splvs to make sure we always run a check
revision 40.100
date: 1995/07/30 02:38:03; author: tbr; state: Exp; lines: +8 -9
remove kludge in final-report
RCS file: /s6/cvsroot/euterpe/verilog/bsrc/Makefile.vo,v
Working file: verilog/bsrc/Makefile.vo
head: 27.45
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 45; selected revisions: 1
description:
revision 27.43
date: 1995/07/30 02:26:38; author: tbr; state: Exp; lines: +2 -2
remove -v1h and -v2h from twinvia per wampler
RCS file: /s6/cvsroot/euterpe/verilog/bsrc/euterpe.status,v
Working file: verilog/bsrc/euterpe.status
head: 24.83
branch:
locks: strict
access list:
keyword substitution: kv
total revisions: 83; selected revisions: 1
```

Exhibit 4B

description: revision 24.77 date: 1995/08/01 02:08:23; author: mws; state: Exp; lines: +27 -5 Add note of bug that SAAS treats its src=dst register as a pair for source dependency analysis even though it is architecturally single octlt. Add note of possible tricky perf improvement to skip BHicMid and get directly to BFetch on sequentially entered ICache lines that miss. Expand on note of CC being busy longer on ICache misses to guarantee forward progress. RCS file: /s6/cvsroot/euterpe/verilog/bsrc/euterpe wrap.V,v Working file: verilog/bsrc/euterpe wrap.V head: 15.104 branch: locks: strict access list: keyword substitution: kv total revisions: 104; selected revisions: 3 description: ____ revision 15.100 date: 1995/08/02 06:40:00; author: lisar; state: Exp; lines: +2 -2 Oops typo caused dout0[7] to be short to dout1[7] revision 15.99 date: 1995/07/31 18:49:04; author: lisar; state: Exp; lines: +6 -1 Oops drive clk54m_ABD0P700V not clk54m_ABD0P700V when the LVS netlist revision 15.98 date: 1995/07/29 23:44:50; author: lisar; state: Exp; lines: +2 -4 When wrapping the LVS netlist don't expect the vdde pint to be at the interface of euterpe - it's a global RCS file: /s6/cvsroot/euterpe/verilog/bsrc/uu/BOM, v Working file: verilog/bsrc/uu/BOM head: 218.1 branch: locks: strict access list: keyword substitution: kv total revisions: 480; selected revisions: 2 description: _______ revision 215.0 date: 1995/07/30 02:45:48; author: tbr; state: Exp; lines: +1 -1 Release Target: euterpe/verilog/bsrc Makefile.vo: change twinvia step Makefile.tst: remove kludge from final-report uu/uu control.pim: Latest placement. Note this was already in top level. i_h_euterpe_wrap.tb: Change to single configuration file _______ revision 214.1

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date: 1995/07/30 02:45:39; author: tbr; state: Exp; lines: +2 -2 releasebom: File needs to be up-to-date to use commit -r RCS file: /s6/cvsroot/euterpe/verilog/lvs/Makefile,v Working file: verilog/lvs/Makefile head: 1.8 branch: locks: strict access list: keyword substitution: kv total revisions: 8; selected revisions: 2 description: _____ revision 1.8 date: 1995/07/31 18:51:30; author: lisar; state: Exp; lines: +2 -4 Add missing dependancy _______ revision 1.7 date: 1995/07/31 00:47:38; author: lisar; state: Exp; lines: +63 -19 Emerged the behavioral cache and tag into an edif2 (form the splvs) then successfully build a non-working mif.mm! Note used xplus5.1 RCS file: /s6/cvsroot/euterpe/verilog/lvs/1_euterpe_wrap.parm,v Working file: verilog/lvs/l euterpe wrap.parm head: 1.2 branch: locks: strict access list: keyword substitution: kv total revisions: 2; selected revisions: 1 description:

date: 1995/07/30 00:05:59; author: lisar; state: Exp; lines: +27 -27

Append an X to the name of the cache and tag arrays.

revision 1.2